FIRST ART	ICLE REQUIREM	MENTS		1. DATE
(AFMCI 64-110, AFMCI 23-102 and FAR I	Part 9, Sub Part 9.3	B) (Additional Inst	ructions on Page 3	23 Jul 01
2. P/R/MIPR NUMBER 3.	PART NUMBER		4. NSN	,
	4	031354		2840-00-343-7948
5. FIRST ARTICLE QUANTITY		, <u> </u>		
THE FIRST ARTICLE IS3	UNIT(S) OF LO	T/ITEM	1	
AND WILL DE				•
AND WILL BE: PART OF PRODUCTION QUAN	TITY	X IN AD	DITION TO PRODUCT	TON QUANTITY
6. ARTICLES		7. LONG LEAD	TIME ITEMS	
				[
	ANUFACTURING	REQUI	RED	X NOT REQUIRED
STANDARD		(See	FAR 52.209-3 or -4	alternate II)
8. SPECIAL REQUIREMENT/PRODUCTION FACILITIES (See	FAR 52.209-3 or -4	Alternate I)	· · · · · · · · · · · · · · · · · · ·	
X REQUIRED		TON	REQUIRED	
"The First Article offered must be manufactured at	t the facilities in whic	h that item is to be	a produced under the	contract or if the First Article is a
component not manufactured by the contractor, su	ch component must be	e manufactured at ti	ne facilities in which t	the component is to be produced for
the contract. A certification to this effect must acc	ompay each First Artic	cle which is offered.	*	
9. TEST/INSPECTION REQUIREMENTS				
		F. FIRST	ARTICLE DELIVERY:	,
A. X CONTRACTOR TESTING GOVERNMEN	NT TESTING	411.00	a within	
Performance or other characteristics which the First A	Articles must meet	(1) D(	e within	_ calendar days from date contract.
are identified in drawing 4031354		(2) No	tify cal	lendar days prior to shipment.
and specifications identified therein.			livered to government	
		-	g	
B. The detailed technical requirements for First Article a	pproval tests are			
contained in Block 12 of this form and LPF	-QAR-003			
(Cite Spec and Para number)		/4\ Co.		signee and Address)
		(4) Go	s after receipt of first	ce of approval/disapproval within
C. X TEST PLAN REQUIRED				and puolingo.
(1) DD Form 1423 ELIN <u>A001</u>		G. Estima	ted cost of aovernme	nt testing/inspection evaluation.
(2) Delivery due <u>30</u> calendar days from d	ate of contract.	1 .	52,500.00	
(3) Number of days for government approval/disag	proval <u>45</u>			
days.				
B. Community of the BCO				
D. Contractor's notification to ACO and PCO	sting Activity)			
	to start of testing.			
соустрио	to start or tosting.			
E. X TEST REPORT REQUIRED				
L. A TEST REPORT REQUIRED				
(1) DD Form 1423 ELIN A002				
(2) Due 120 calendar days from date of co	ontract.			
(3) Forwarded to OC-ALC/TICLA, 3001 S	Stoff Dr. Ct. TCO			
		-		
Tinker AFB, OK 73145-3036, ATTN		-		
(4) Government written notice of approval/disappro	val due <u>60</u>	-		
days after receipt of contractor's report.				
10. DISPOSITION OF FIRST ARTICLES				
		Disag	proved first articles w	vill be returned to the contractor/
Approved First Articles will be forwarded to			will be retained by	pending
		dispo	sition instructions fror	n the contractor
X	ovnoeded into 100	On ,	ourchase requests d	esignated as direct shipments the
X   (insert quantity). first articles will be Residual components of dispproved first articles				esignated as direct snipments the apply. (NOTE: Always applicable on
returned to the contractor/ will be retained			n Military Sales (FMS	
pending disposition	•			
the contractor.	matructions iform			will be returned to the contractor for
First articles will be installed on aircraft/equ	inment to determine	· ·	ent with production it	
proper fit/function. Approved article wi			sposition of disapprov arked above.	red first articles will remain the same
aircraft/equipment and will not be forwarded	to USAF Supply, but			
will be considered part of the contract quantity.	•	X Oth	er Disposition: See	block 12 of this form
				_

1,	COND	ITION(S) FOR WAIVER OF FIRST ARTICLE APPROVAL
a.		Officers who have
b.		Offerors currently in production of the same or similar article for a Government, DoD, Air Forceontract and who have received First Article approval under the existing contract.
c.	X	Offerors who have previously furnished production quantities of the same or similar articles for a $X$ Government, $X$ DoD, $X$ Air Force provided articles thus furnished have exhibited satisfactory performance in service, in the opinion of the Air Force.
d.	X	Provided not more than36 months have elapsed since completion of the contract.
e.		First Article testing will not be waived.
f.	X	See Remarks in block 12 below.
	THIS	TE TO BUYER: UNDER CONDITIONS A AND C ABOVE, THE COGNIZANT ENGINEERING ACTIVITY WILL DECIDE WHETHER OR NOT THE ITEM EXHIBITED SATISFACTORY PERFORMANCE IN SERVICE AND PREPARE AND RETAIN SUPPORTING DOCUMENTATION TO FULLY JUSTIFY DECISION. THE BUYER MUST SOLICIT DUAL PRICES (That is, both with and without requirement for first article approval) AND MUST FURNISH COGNIZANT ENGINEERING ACTIVITY WITH THE FOLLOWING INFORMATION ON THE PREVIOUSLY SUPPLIED ARTICLE:
	A	A. PROCURING OFFICE B. CONTRACT NUMBER C. DATE OF CONTRACT D. SPECIFICATION NUMBER AND REVISION
12. F	REMAR	KS
9.B	. Firs	st article test requirements shall be per LPF-QAR-003 and the following:
	a. 1	All three first articles shall be inspected in accordance with the requirements of paragraphs 3.1, 3.2, 3.3, 3.4, and 3.5 of LPF-QAR-003.
	b. 1	After completion of inspections per 9.B.a above, one article shall be destructively tested/evaluated in accordance with the requirements of paragraph 3.6 of LPF-QAR-003.
10.	Dispo	osition of first Articles:
	u	approved first article(s) will be returned to the contractor's facility for reconditioning (if necessary) with final acceptance he same as for production items. If a first article is expended in testing, approval of first article will constitute cceptance.
	b. D	Disapproved first article(s) shall be returned to the contractor's facility, unless specified otherwise by the PCO.
11.	The cond	cognizant Government engineering authority shall be the final authority for determining if a contractor meets the itions of waiver identified in 11.a or 11.c.
	First	article testing is waived if the offeror is the prime contractor, Pratt & Whitney.
uu	SASICI	critical part used in the F100 series turbine engine. Poor quality parts will have an advese effect on mission capability in safety. For this reason, First Article Testing is required to insure first time manufacturers or manufacturers that have ced the item within three years manufacture parts in accordance with the drawing and specification requirements.
3. C	OGNIZ	ANT ENG ORGANIZATION RESPONSIBLE FOR CONDUCTING 14. PR INITIATOR (Name, Organization, Phone)
/DN	OR APP	PROVING TEST (Hame, Organization, Pilane)  Cek, OC-ALC/LPFRA, (405) 714-8783
		Mad Sylva X, 23 July Ol

# **CONTRACT DATA REQUIREMENTS LIST**

(1 Data Item)

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other laformation Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 2202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing

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# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Officer for the Contract/PR No. listed in Block E.

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### I. HARDWARE DESCRIPTION

#### A. Nomenclature:

Lock - Compressor Stator Linkage Pin

#### B. Function:

This part secures the linkage pins on the 5th stage variable vane synchronizing ring.

## C. Material Composition:

**AMS 5503 SST** 

# II. REFERENCE DOCUMENTS

A. LPF-QAR-004: "General Quality Assurance Requirements For F100 Engine Components."

# III. JUSTIFICATION FOR QUALIFICATION REQUIREMENTS

Ref.: FAR Subpart 9.2, AFMCFAR Subpart 5309.2

The following paragraphs provide the justification for qualification requirements for this part.

#### A. Criticality of Part:

This is a Critical Application Item (CAI) used on F-16 configured engines. A failure during flight can lead to the loss of the aircraft and possibly the loss of life.

#### B. Complexity of Part:

This part is not complex to manufacture, however, it is used in a critical location and must therefore require strict process control and quality standards.

## C. Government Risk:

The following paragraphs document the reasons why the risk to the government of buying this part from an unqualified source is compound.

- 1. The probability of an unqualified source producing an unsatisfactory part is moderate.
- 2. The probability of an unqualified source failing to produce within schedule is moderate.
- 3. A high potential exists for an unqualified source to underestimate the manufacturing difficulty and miss critical delivery schedules.
- 4. Untimely delivery critically impacts end item overhaul/repair schedules. Failure to deliver on schedule may result in additional high cost emergency procurements.

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5. An inferior part can result in a loss of engine power or inflight shutdown. This would lead to a mission abort and possibly the loss of the aircraft.

D. There are no costs incurred by an offeror for qualification testing and testing evaluation under the requirements of paragraphs VI.A or VI.B. However, the offeror's development of a Source Approval Request (SAR) package to be submitted for Government evaluation may cost as much as \$2500. In addition, the cost incurred by offerors for Government evaluation of their SAR submitted under the requirements of paragraphs VI.A or VI.B may be as much as \$1,200. This cost may be borne by the Government if it is in the best interest of the Government to qualify alternate sources.

# IV. JUSTIFICATION FOR QUALIFICATION PRIOR TO CONTRACT AWARD Ref.: AFMCFAR Subpart 5309.2

The following paragraphs provide the rationale for requiring a demonstration of the qualification requirements prior to contract award.

- A. The risk of default by the contractor must be minimized as the shortest combined administrative and production lead-time is over 21 months.
- B. The technical risk must also be minimized due to the criticality of the part (Reference the section "Criticality of Part" in paragraph III.A).
- C. The manufacturing and processing techniques are critical to performance and reliability (Reference the section "Criticality of Part" in paragraph III.A).
- D. The risk to the government in determining a potential vendor's capability without an actual demonstration of that capability must be minimized. The expertise that is required to manufacture this part is not commonly available or easily obtained and therefore must be demonstrated. (Reference the section "Complexity of Part" in paragraph III.B).

# V. DATA AND DOCUMENTATION REQUIREMENTS

The following paragraphs document the data that must be submitted with a request for source approval. All documentation submitted shall be the latest revision published. Documentation shall be bound (preferably a three ring binder) with a table of contents and corresponding sections tabbed.

- A. The potential Offeror must substantiate that they possess latest revision of the following data by providing a copy in the source approval package, or must provide DCAS or other government representative written verification that the potential vendor has the latest revision of the following data:
  - 1. Drawing Number: 4031354 (Including all sub-assembly or detail drawings specified on this drawing number)

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2. Quality Assurance Data (QAD): 4031354 As applicable, include the QAD for each sub-assembly or detail part listed on the above drawing.

- 3. All applicable specifications called out on the drawing, and/or assembly and detail drawings, and on the QAD (as applicable). These include:
  - a) Process Specifications
  - b) Inspection Processes
  - c) Material Specifications
- B. The potential Offeror's Quality Assurance System must meet or exceed the requirements described in the attached document LPF-QAR-004.
- C. The vendor shall supply a list of all manufacturing and inspection processes that will be performed, both in-house or by sub-vendors. The vendor shall substantiate that sources to be employed for any significant process, including themselves, with the exception of conventional metal removal processes, are currently approved by Pratt & Whitney for the specific process required or another OEM for an equivalent process. The vendor must supply the name and address of each certified vendor to be used. In all cases where process approval is relative to an OEM process specification other than Pratt & Whitney, the vendor shall provide the complete specification and demonstrate the equivalence of the specifications.

# VI. SUBSTANTIATION OF MANUFACTURING CAPABILITY

The following paragraphs document the methods to be used to substantiate a vendor's capability to manufacture this item.

- A. A vendor who has manufactured the item for the prime contractor or for other US DoD users of the same item within the last five years may be approved as a source for the part provided that the vendor was responsible for all material procurement, inspection, and finishing of the end item, i.e., the prime manufacturer did not add any value to the end item. The vendor must submit evidence of the scope of work for the part indicating that they had primary responsibility for all operations necessary for the completion of the part for delivery to the customer. This evidence shall include MANUFACTURING PROCESS SHEETS.
- B. Other vendors will be considered for approval on the basis of their ability to manufacture a similar item for the prime contractor, US DoD, or a NATO country. The following conditions must be met for approval by similarity:
  - 1. Submit evidence of the successful manufacture and sale of the similar item, to include purchase orders and shipping documents reflecting production quantities within the last five years. This evidence must document that the vendor had primary responsibility for all operations necessary to produce the similar item, and that the similar item was accepted by the customer. Also include a summary of quality deficiencies experienced within the last two years of production of the similar item(s) with coordination from the Q. A. manager.

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The vendor shall provide SPECIFIC similarities and differences between the subject part and the similar part.

- 2. The vendor shall substantiate that the similar component(s) submitted will satisfy the following criteria:
  - a) Fabricated of the same alloy or an alloy from the same alloy family, e.g. Alpha Titanium's, Inconels, Austenitic Stainless Steels.
  - b) Illustrates the ability of the vendor, in conjunction with their sub-vendors, to perform all significant processes to be employed and maintain requisite tolerances and surface finish requirements.
  - c) The data must also show that the manufacturing and inspection/test processes for the similar part demonstrate the full range of difficulty required for the subject part. Included in this data shall be complete MANUFACTURING PROCESS SHEETS for the similar item.
- 3. A first article requirement may be included in any contract resulting from approval based upon similarity. The estimated cost of first article testing is \$1,000.00. These tests may include material properties analysis, dimensional analysis, and possibly rig test. At least three first articles would be required with one first article requiring destructive testing.

# VII. RESPONSIBLE ENGINEERING ORGANIZATION

The responsible organization for establishing these qualification requirements is the F100 Engine Engineering Branch, within the Fighter Propulsion Division of the Oklahoma City Air Logistics Center, Tinker Air Force Base, Oklahoma.